

q1 automatically determining a routing pattern in the system for the element based on the diagram and the guidelines.

q2 10. (Amended) A computer-readable medium including instructions for designing a structure for routing a plurality of elements for connecting components, comprising the steps of:

- establishing a system design including a plurality of components;
- generating a diagram associated with the system design, wherein the diagram includes the plurality of elements and the plurality of components;
- accessing guidelines for designing the structure; and
- automatically determining routing patterns in the structure for the plurality of elements based on the diagram and the guidelines.

q3 12. (Amended) The computer-readable medium of claim 10, further including the steps of:

- receiving one or more revised guidelines for designing the structure; and
- determining a revised routing pattern in the structure for the plurality of elements based on the diagram and the revised guidelines.

q4 21. (Amended) A system for designing a system including an element, wherein the element connects a plurality of components, the system comprising:

- a routing design module configured to perform the following steps,
- establishing a system design including the plurality of components;

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com